

FIG.2

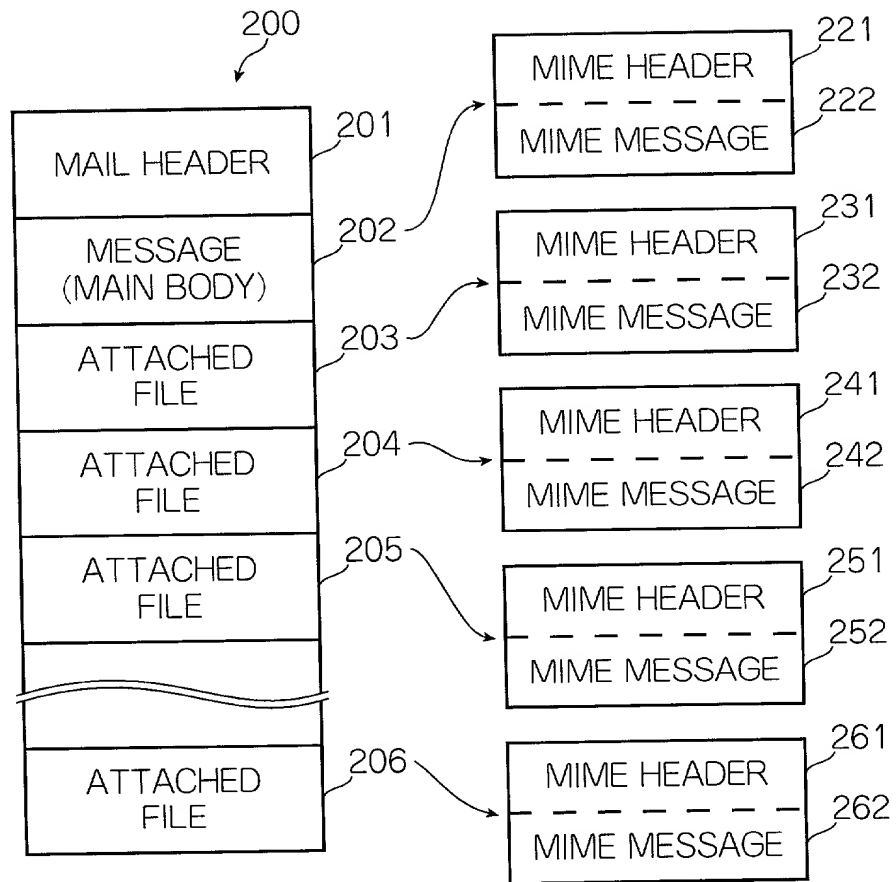
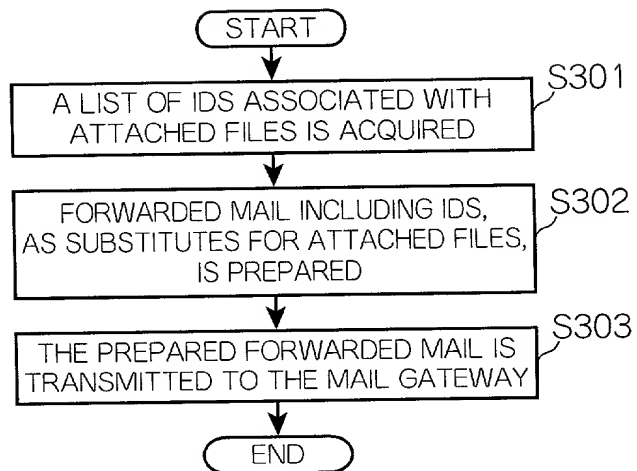
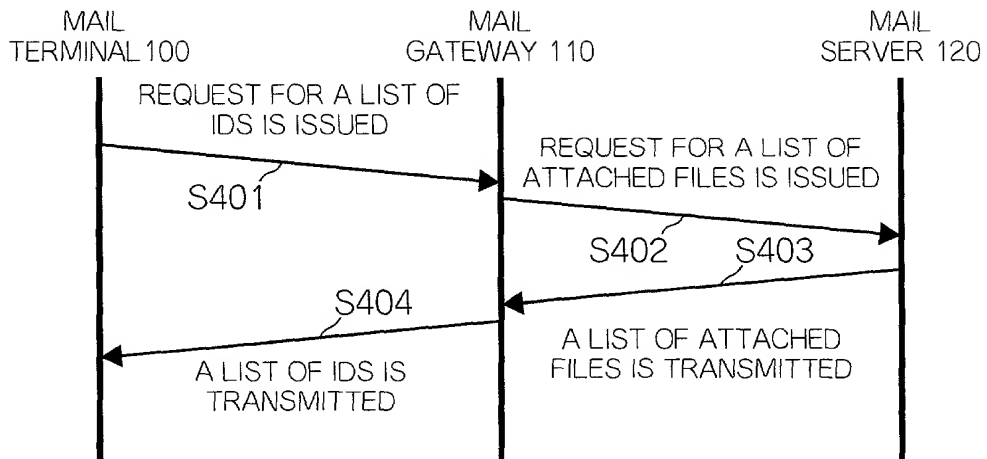


FIG.3



05910853.072401

FIG.4



0910853.072401

FIG.5A

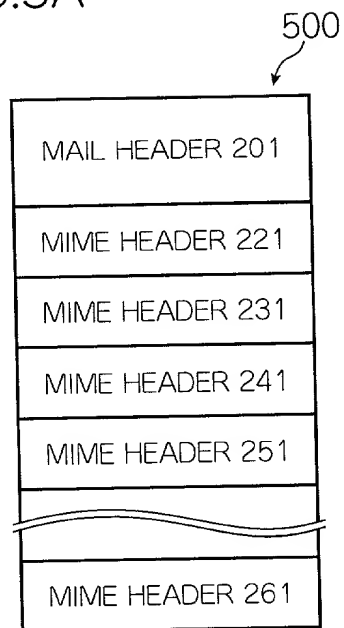


FIG.5B

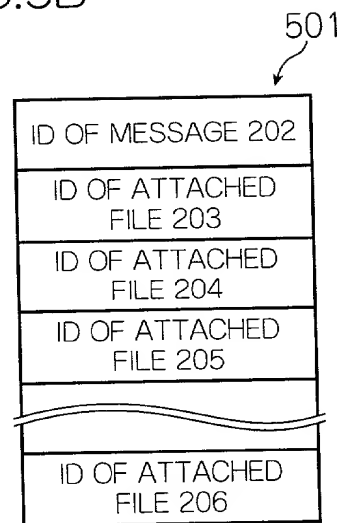
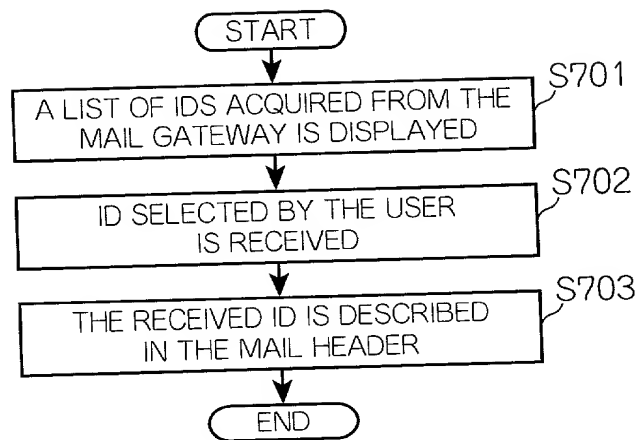


FIG.6

ATTACHED FILE	ATTACHED ID
MESSAGE 202	0123456789:000
ATTACHED FILE 203	0123456789:001
ATTACHED FILE 204	0123456789:002
ATTACHED FILE 205	0123456789:003
ATTACHED FILE 206	0123456789:XXX

FIG.7



09910859 072401

FIG.8

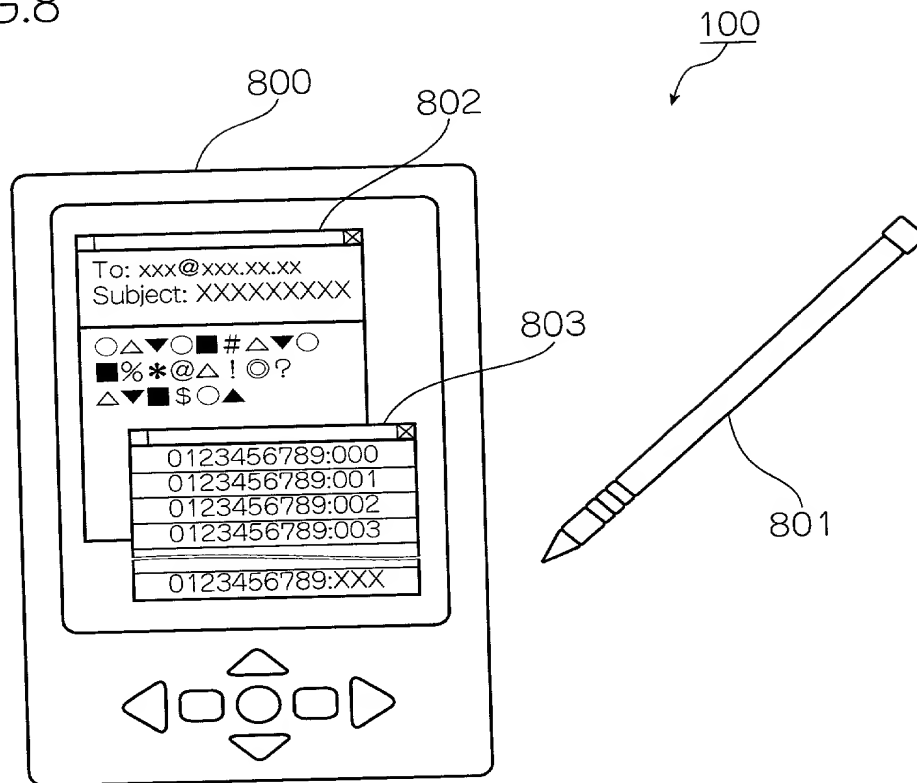


FIG.9

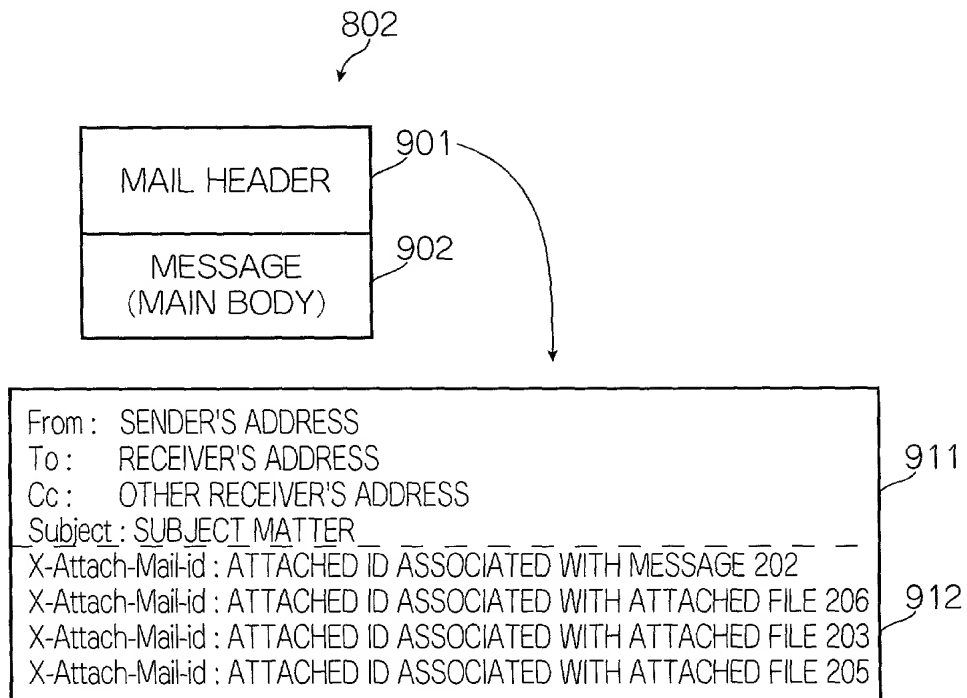


FIG. 10

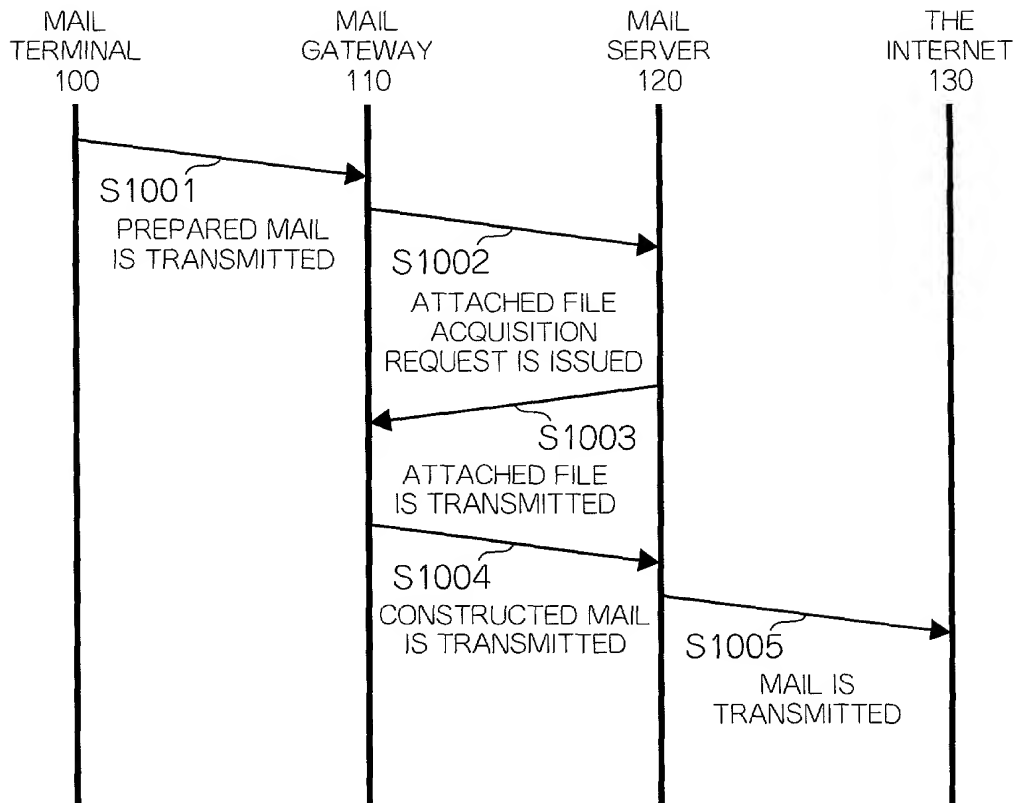


FIG. 10

FIG.11

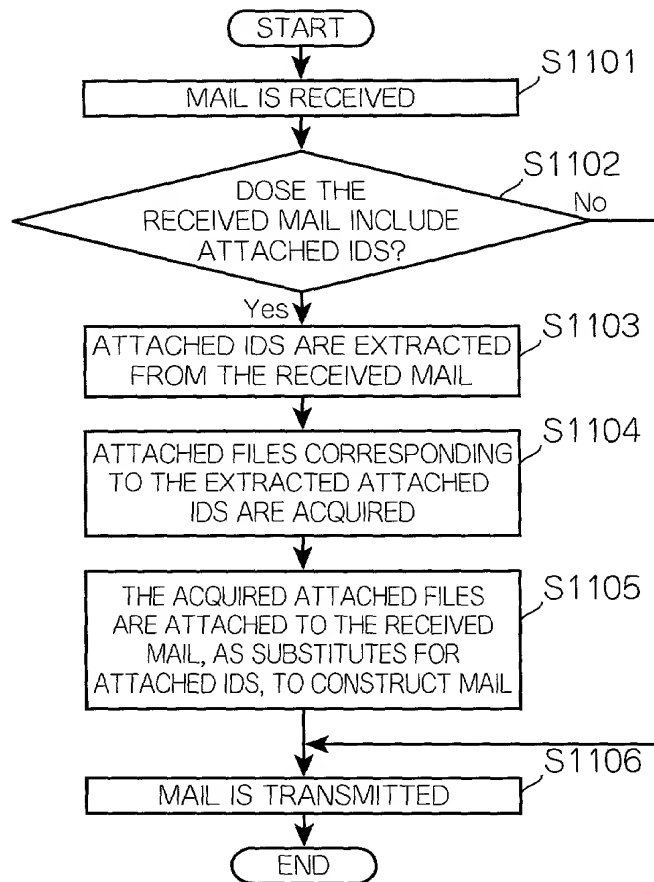
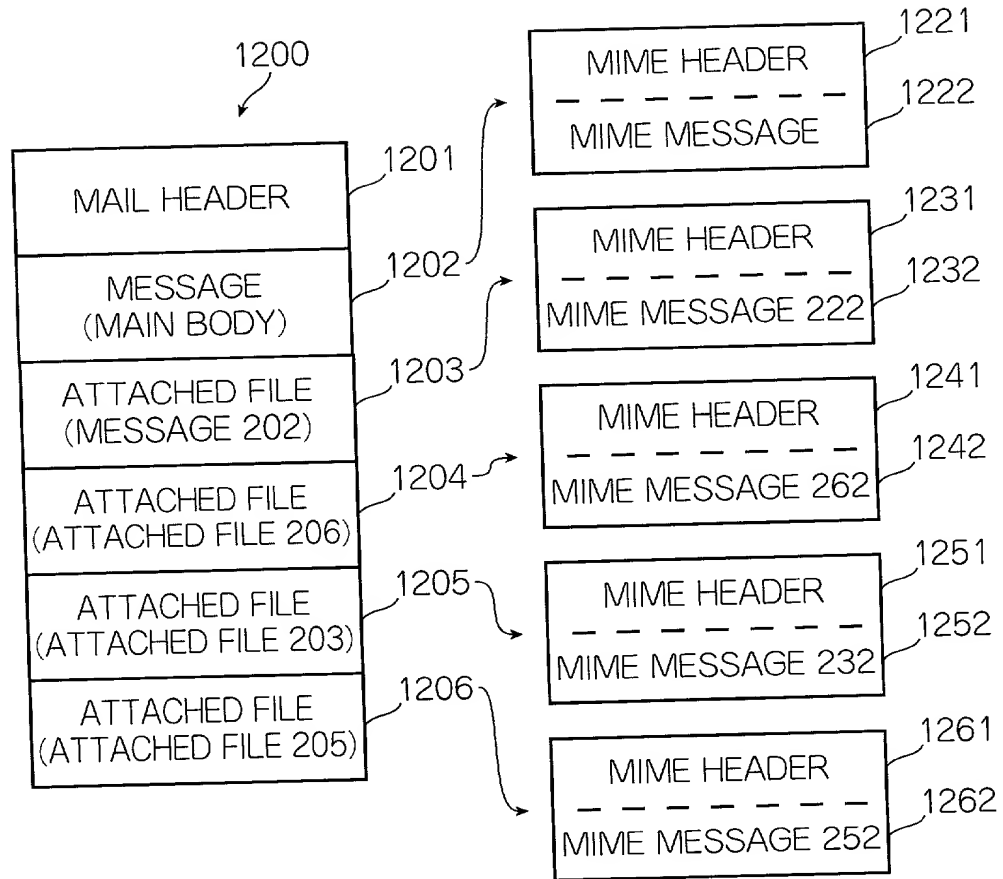


FIG. 11

The diagram illustrates the structure of a mail message 1200 and its expansion into individual MIME messages. On the left, the mail message 1200 is shown as a vertical stack of five components: MAIL HEADER (1201), MESSAGE (MAIN BODY) (1202), ATTACHED FILE (MESSAGE 202) (1203), ATTACHED FILE (ATTACHED FILE 206) (1204), ATTACHED FILE (ATTACHED FILE 203) (1205), and ATTACHED FILE (ATTACHED FILE 205) (1206). On the right, each component is expanded into a separate box representing a MIME message. The MAIL HEADER (1201) is expanded into a box containing a MIME HEADER (1221) and a MIME MESSAGE (1222). The MESSAGE (MAIN BODY) (1202) is expanded into a box containing a MIME HEADER (1231) and a MIME MESSAGE 222 (1232). The ATTACHED FILE (MESSAGE 202) (1203) is expanded into a box containing a MIME HEADER (1241) and a MIME MESSAGE 262 (1242). The ATTACHED FILE (ATTACHED FILE 206) (1204) is expanded into a box containing a MIME HEADER (1251) and a MIME MESSAGE 232 (1252). The ATTACHED FILE (ATTACHED FILE 205) (1206) is expanded into a box containing a MIME HEADER (1261) and a MIME MESSAGE 252 (1262). The ATTACHED FILE (ATTACHED FILE 203) (1205) is not expanded into a separate box.



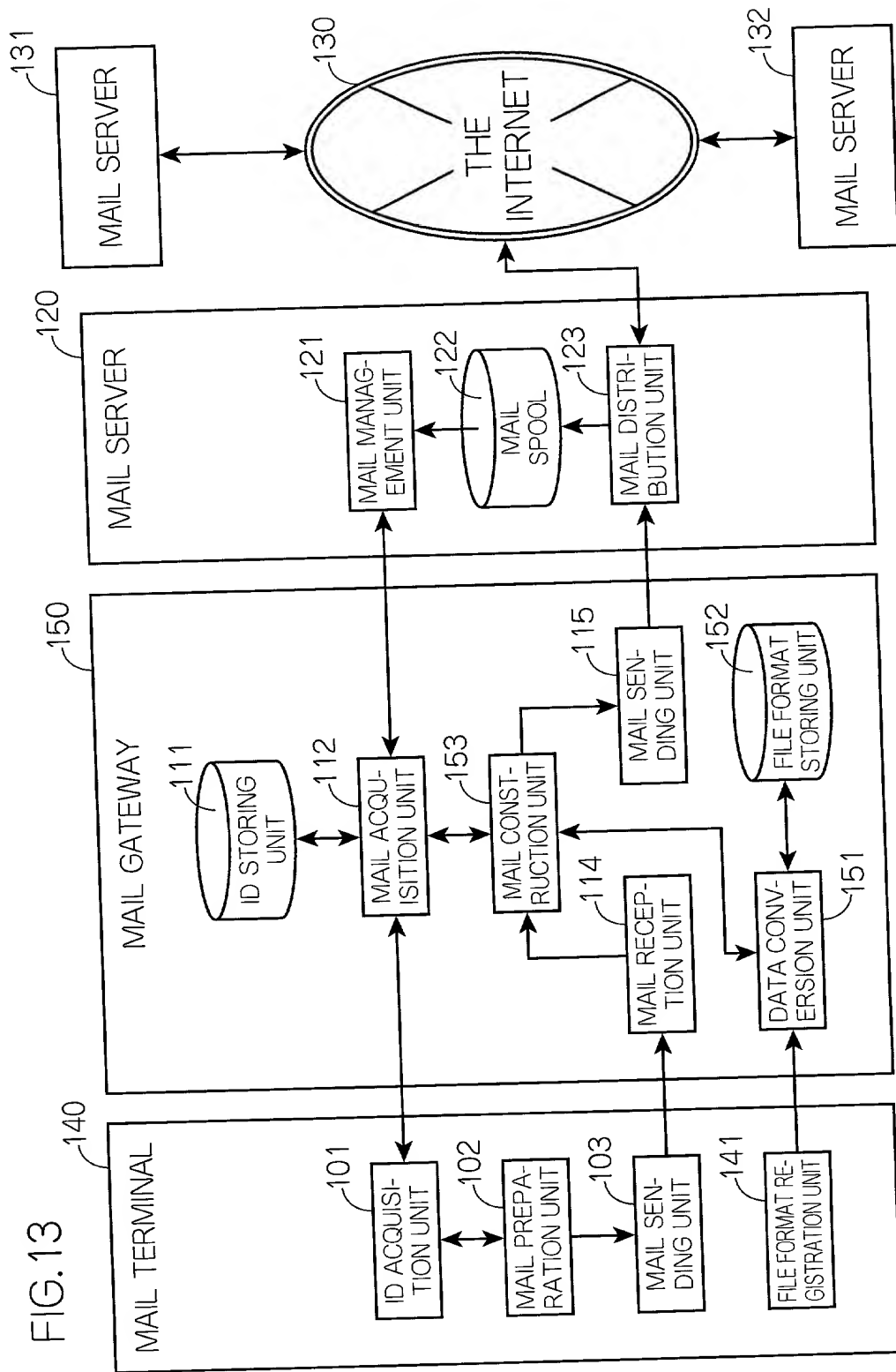


FIG.14

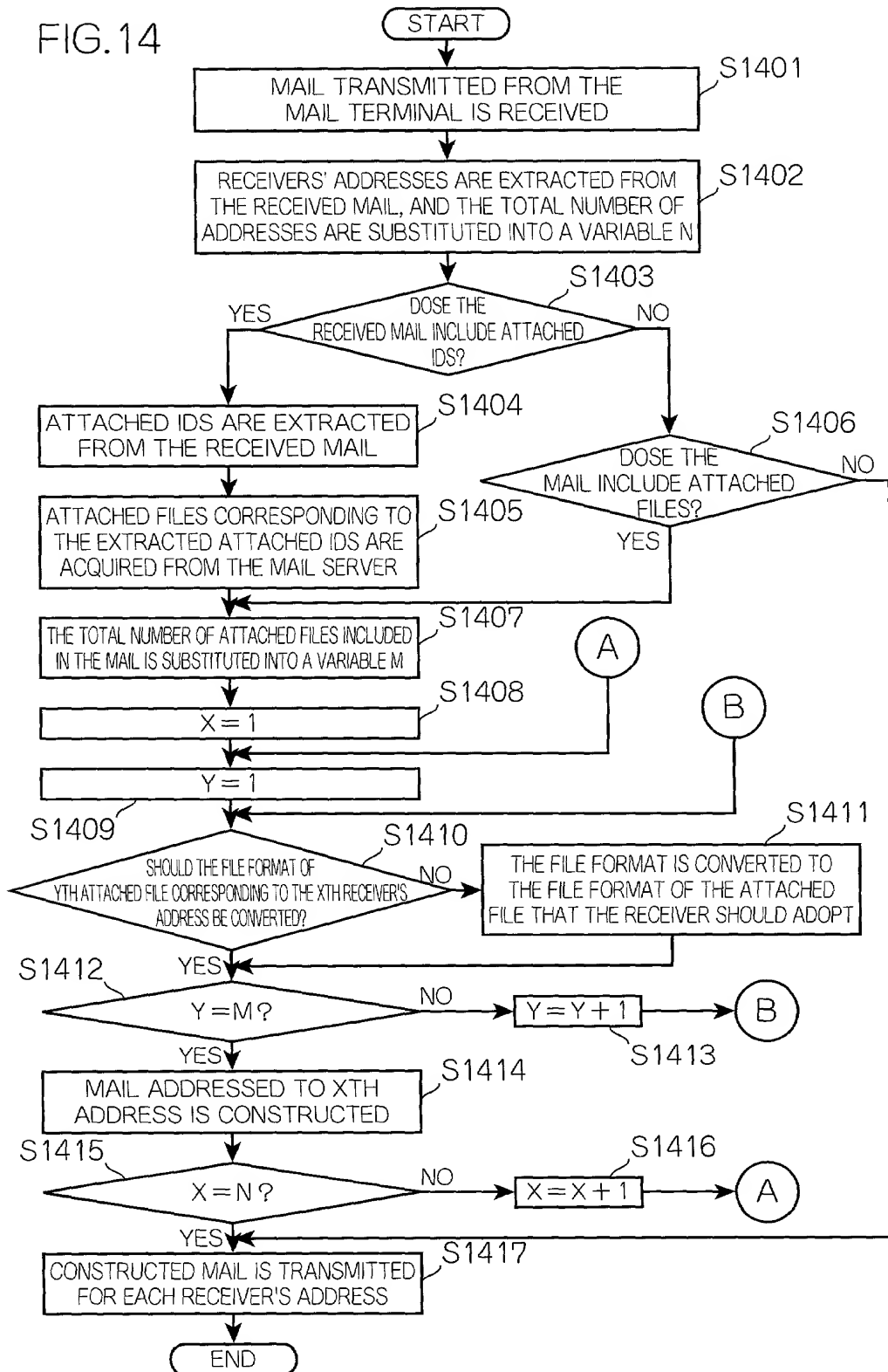


FIG.15

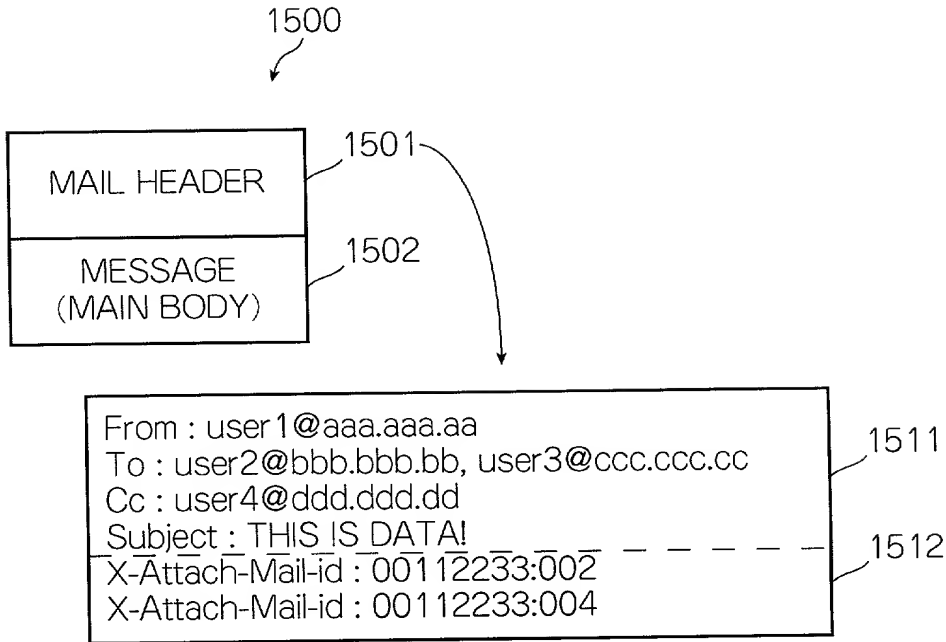


FIG.16

1600

RECEIVER'S ADDRESS	FILE FORMAT OF ATTACHED FILE THAT RECEIVER SHOULD ADOPT
user1@aaa.aaa.aa	doc, bmp, jpg
user2@bbb.bbb.bb	txt, bmp
user3@ccc.ccc.cc	doc, gif
user4@ddd.ddd.dd	txt,jpg
user5@eee.eee.ee	doc, txt, bmp, jpg

104240" E580F660

FIG. 17A

1700

From : user1@aaa.aaa.aa To : user2@bbb.bbb.bb Subject : THIS IS DATA!	MESSAGE 1502 (MAIN BODY)	ATTACHED FILE (shiryou1.txt)	ATTACHED FILE (shiryou2.bmp)
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FIG. 17B

1701

From : user1@aaa.aaa.aa To : user3@ccc.ccc.cc Subject : THIS IS DATA!	MESSAGE 1502 (MAIN BODY)	ATTACHED FILE (shiryou1.doc)	ATTACHED FILE (shiryou2.gif)
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FIG. 17C

1702

From : user1@aaa.aaa.aa To : user4@ddd.ddd.dd Subject : THIS IS DATA!	MESSAGE 1502 (MAIN BODY)	ATTACHED FILE (shiryou1.txt)	ATTACHED FILE (shiryou2.jpg)
---	-----------------------------	---------------------------------	---------------------------------

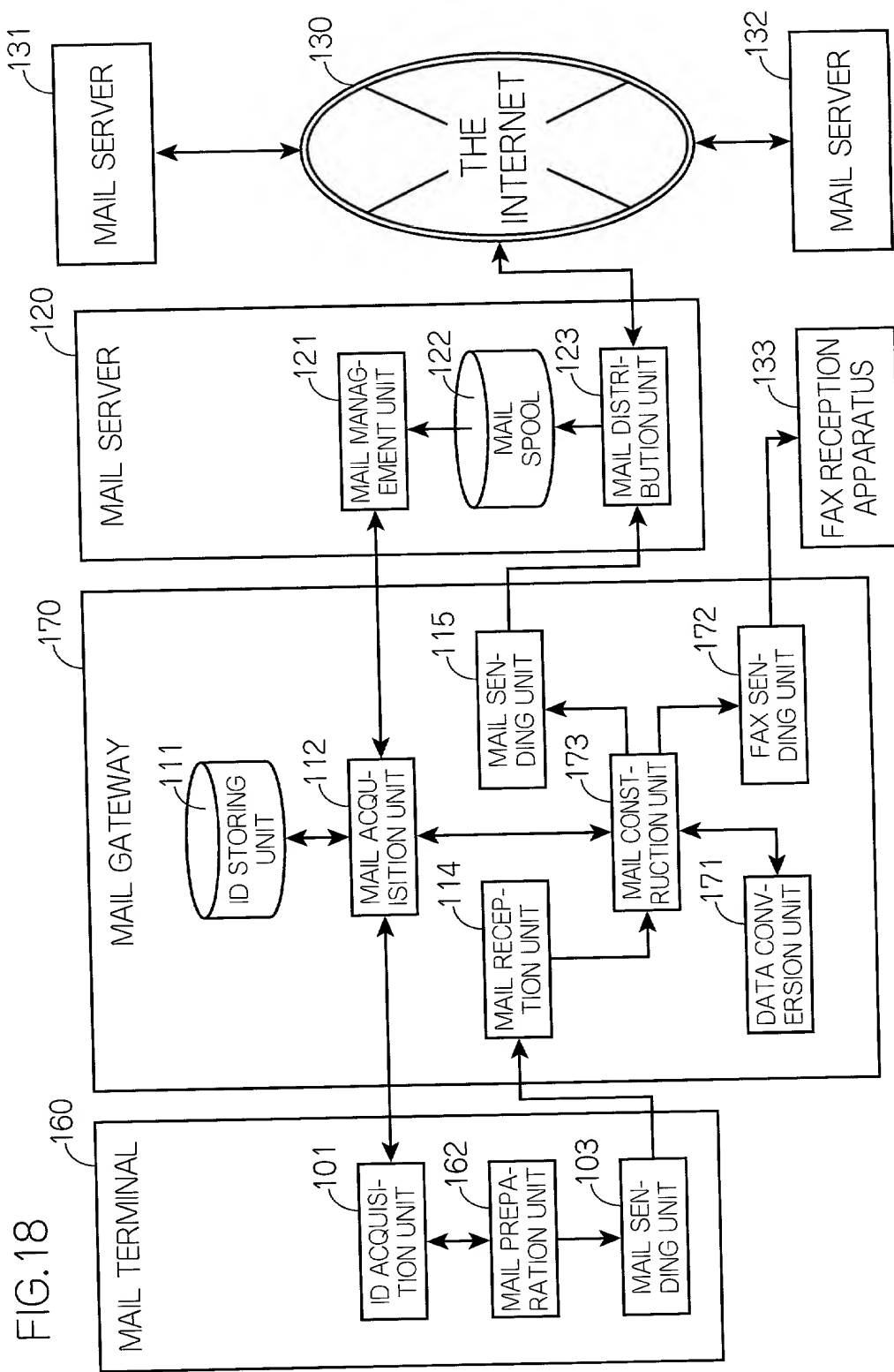


FIG.19

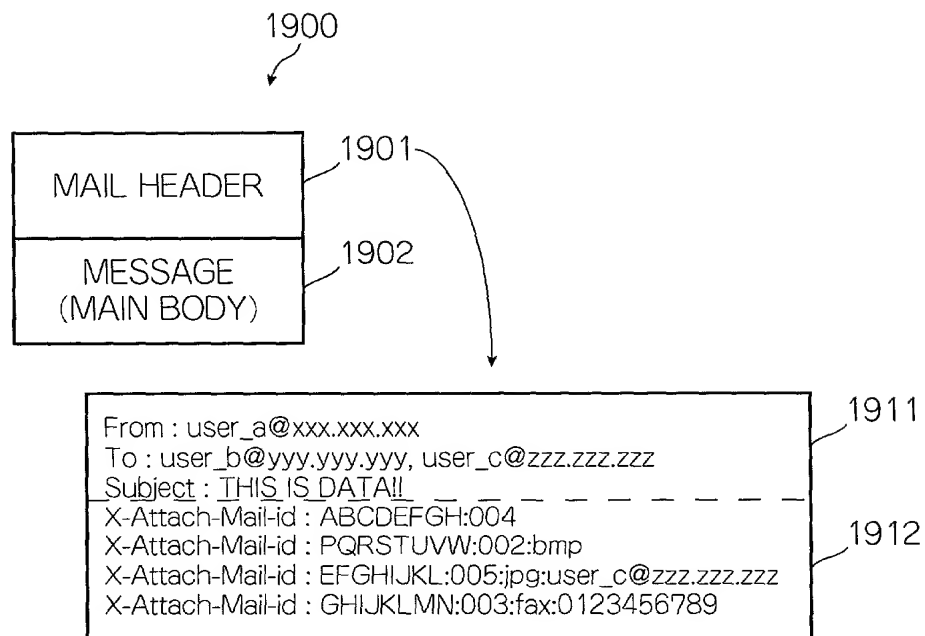


FIG. 19

FIG.20A

2000

From : user_a@xxx.xxx.xxx To : user_b@yyy.yyy.yyy Subject : THIS IS DATA!!
MESSAGE 1902 (MAIN BODY)
ATTACHED FILE (File1.txt)
ATTACHED FILE (File2.bmp)

FIG.20B

2001

From : user_a@xxx.xxx.xxx To : user_c@zzz.zzz.zzz Subject : THIS IS DATA!!
MESSAGE 1902 (MAIN BODY)
ATTACHED FILE (File1.txt)
ATTACHED FILE (File2.bmp)
ATTACHED FILE (File3.jpg)

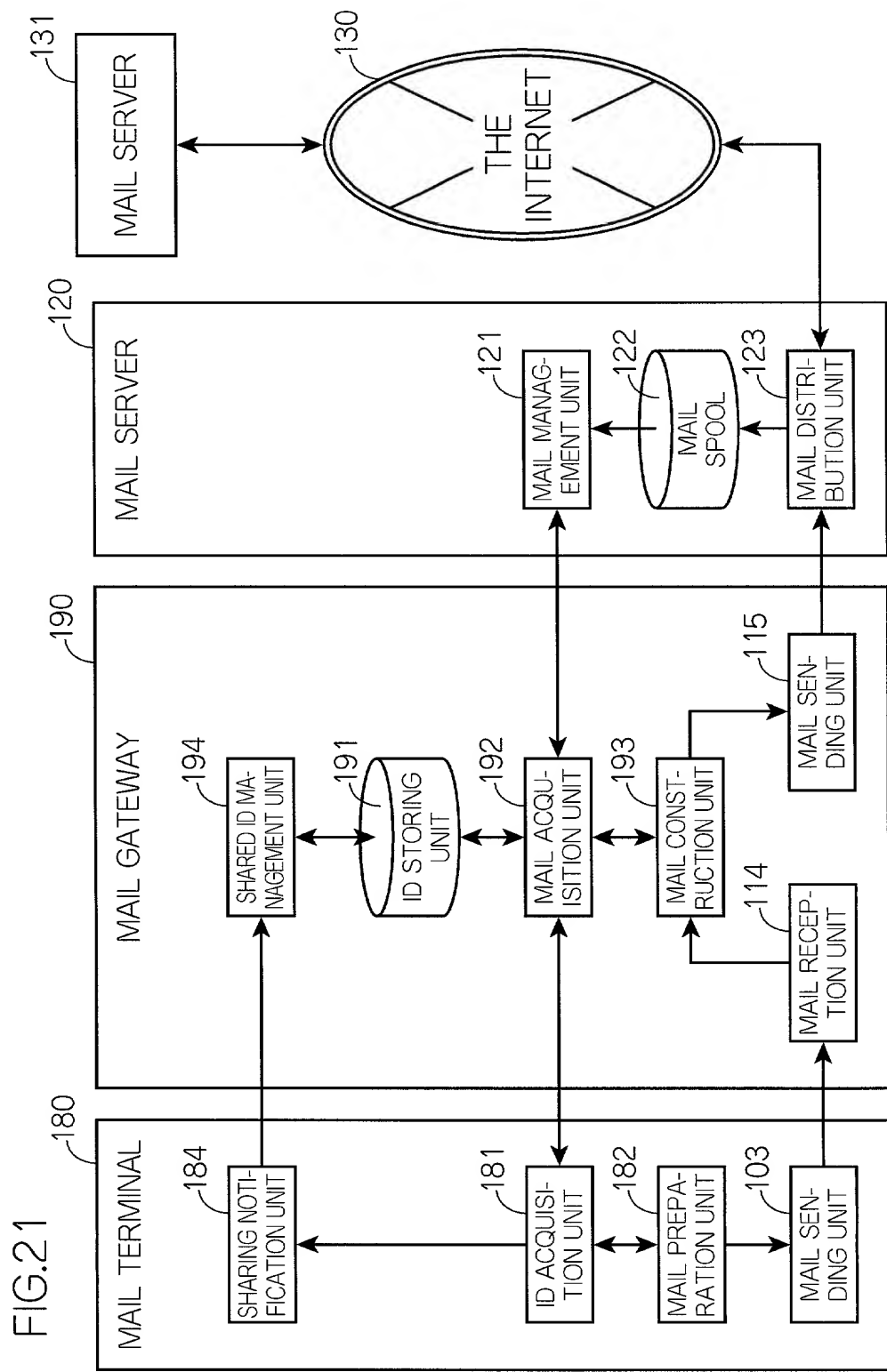


FIG.22

2200

SHARED ID	ATTACHED ID	SHARER
ZXFG743211	GYF93501:001	user24, user6, user109
TYJI94890F	A23BG968:003	user9
A8745HDW30	C67J9DF7:005	user53, user65, user9, user21
KRS73209L4	RD90K574:002	user5, user9
JJD5409M82	XUH7J6F1:004	user10, user11, user12

FIG. 22

FIG.23

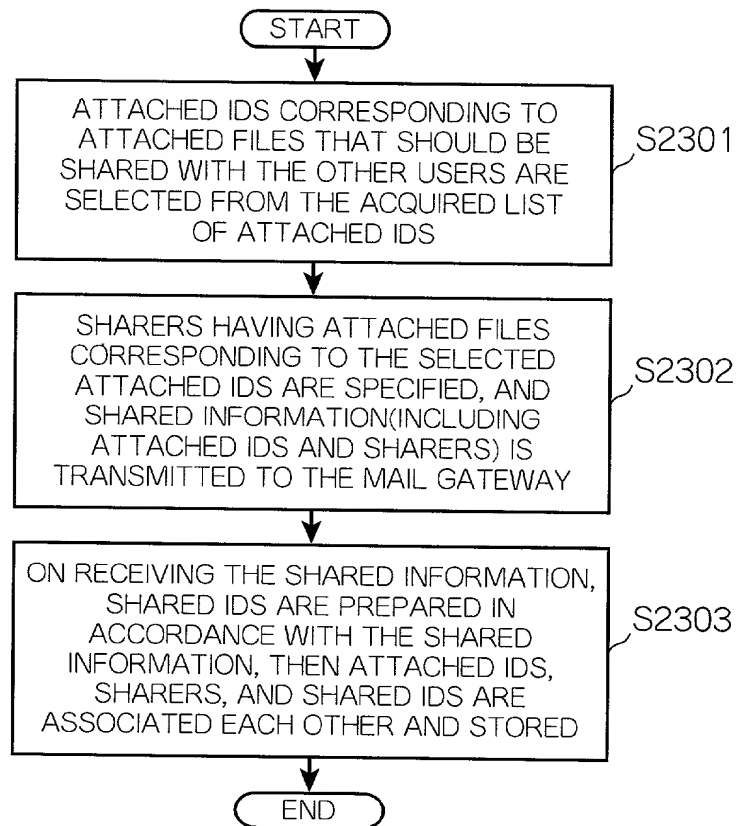


FIG. 23

FIG.24

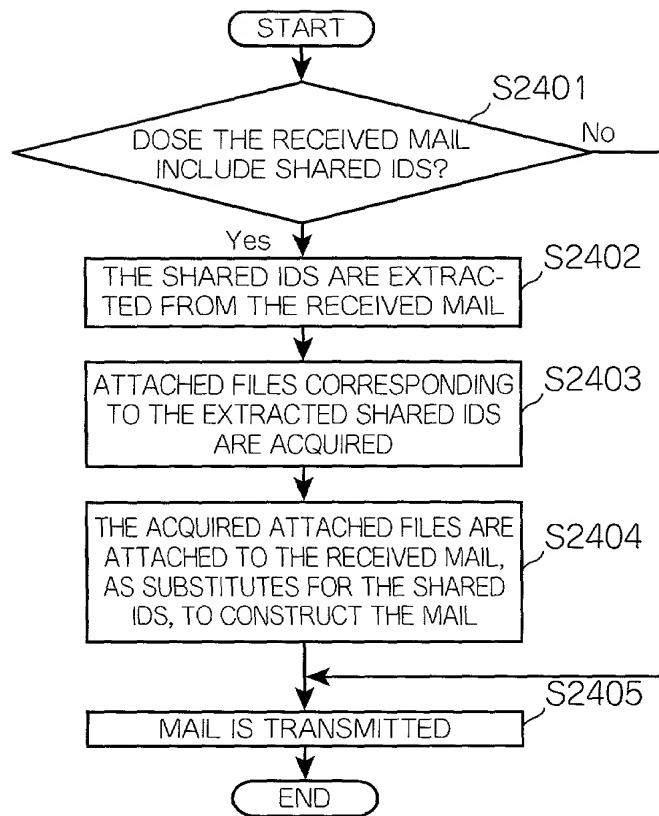


FIG. 24